



U.S. Department
of Transportation
**Research and
Special Programs
Administration**

**IAEA CERTIFICATE OF COMPETENT AUTHORITY
SPECIAL FORM RADIOACTIVE MATERIALS
CERTIFICATE NUMBER USA/0018/S, REVISION 7**

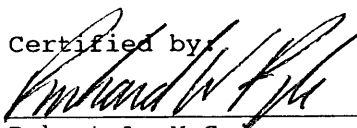
400 Seventh St., S.W.
Washington, D.C. 20590

This certifies that the source described has been demonstrated to meet the regulatory requirements for special form radioactive material as prescribed in the regulations of the International Atomic Energy Agency¹ and the United States of America² for the transport of radioactive materials.

1. Source Identification - SR-CF-100 series neutron source manufactured by either the Savannah River Laboratory or the Oak Ridge National Laboratory (ORNL).
2. Source Description - The source described by this certificate is a welded, double encapsulation constructed of a platinum-rhodium alloy inner capsule and a stainless steel or Zircalloy-2 outer capsule. The external dimensions are 9.4 mm (0.37") in diameter x 38 mm (1.5") long. Source shall be constructed in accordance with drawing no. USA/0018/S, drawing 1 (attached).
3. Radioactive Contents - This source consists of not more than 0.192 TBq (5.2 Ci) of Cf-252 as an oxide.
4. Quality Assurance - Records of Quality Assurance activities required by Paragraph 209 of the IAEA regulations¹ shall be maintained and made available to the authorized officials for at least three years after the last shipment authorized by this certificate. Consignors and consignees in the United States exporting or importing shipments under this certificate shall satisfy the requirements of Subpart H of 10 CFR 71.
5. Expiration Date - This certificate expires November 1, 2005.

This certificate is issued in accordance with paragraph 703 of the IAEA Regulations and Section 173.476 of Title 49 of the Code of Federal Regulations, in response to the petition and information dated October 18, 2000 submitted by U.S. Department of Energy, Washington, DC, and in consideration of other information on file in this Office.

Certified by:


Robert A. McGuire
Associate Administrator for
Hazardous Materials Safety

NOV - 6 2000

(DATE)

Revision 7 - issued to extend the expiration date.

1 "Safety Series No. 6, Regulations for the Safe Transport of Radioactive Materials, 1985 Edition, as amended 1990" , published by the International Atomic Energy Agency (IAEA), Vienna, Austria.

2 Title 49, Code of Federal Regulations, Parts 100 - 199, United States of America.

Mot'l - 304L SS or
Zircoboy-2
Finish - B/
Note: Do not break edges

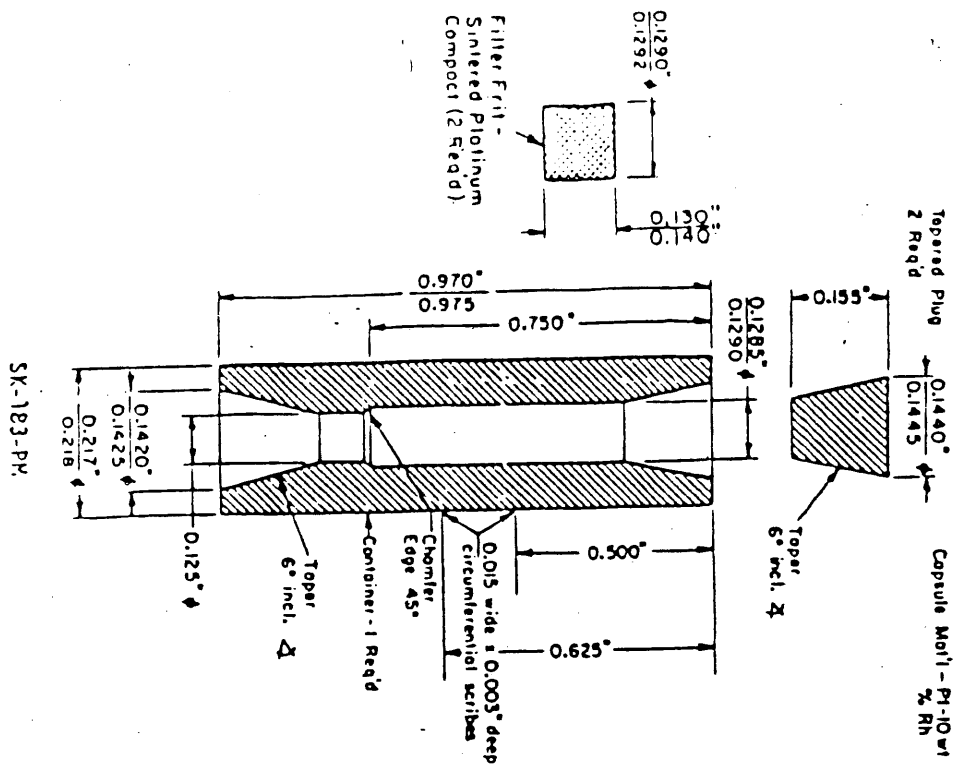


FIGURE 2. SR-CT 100 Series - Inner Capsule Components

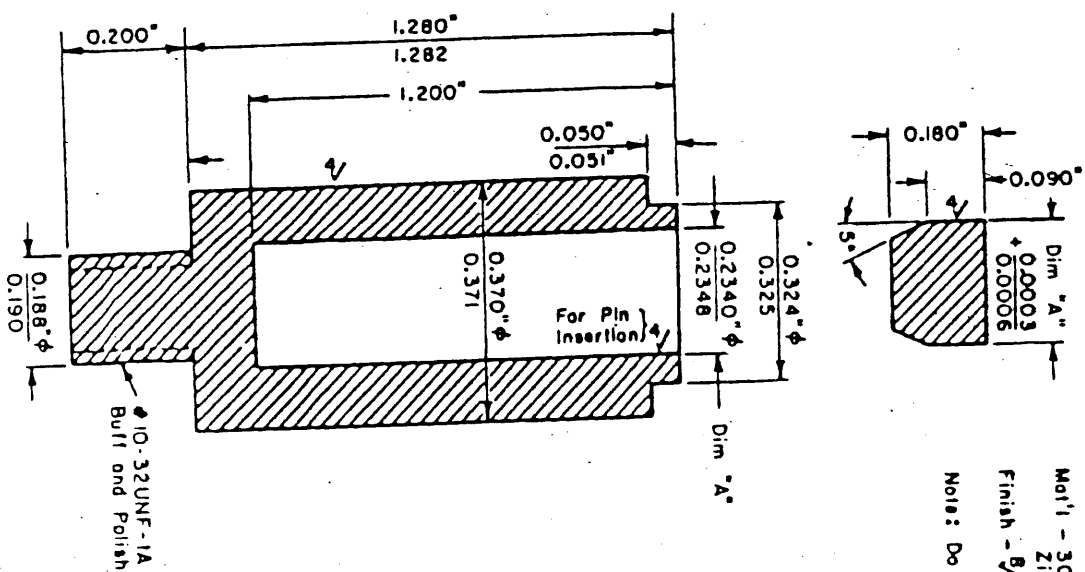


FIGURE 4. SRACTION SERIES - SECONDARY CAPSULE

SK-184-PM